ITMO UNIVERSITY

ITMO Template Example

First A.[1] Second A.[2]

[1]Faculty/Department
ITMO University

[2]Faculty/Department
ITMO University

Date

Ocasion

Table of Contents

Theorem (Fermat's little theorem)

For a prime p and $a \in \mathbb{Z}$ it holds that $a^p \equiv a \pmod{p}$.

Proof.

The invertible elements in a field form a group under multiplication. In particular, the elements

$$1, 2, \ldots, p-1 \in \mathbb{Z}_p$$

form a group under multiplication modulo p. This is a group of order $p-1$. For $a \in \mathbb{Z}_p$ and $a \neq 0$ we thus get $a^{p-1} = 1 \in \mathbb{Z}_p$. The claim follows. □

Example

The function $\phi : \mathbb{R} \to \mathbb{R}$ given by $\phi(x) = 2x$ is continuous at the point $x = \alpha$, because if $\varepsilon > 0$ and $x \in \mathbb{R}$ is such that $|x - \alpha| < \delta = \frac{\varepsilon}{2}$, then

$$|\phi(x) - \phi(\alpha)| = 2|x - \alpha| < 2\delta = \varepsilon.$$

Sometimes it is useful to highlight certain words in the text.

Important message

If a lot of text should be highlighted, it is a good idea to put it in a box.

It is easy to match the colour theme.

- Bullet lists are marked with a red box.

Description highlights important words with red text.

Example

- Lists change colour after the environment.

Effects

1. Effects that control
2. when text is displayed
3. are specified with ¡¿ and a list of slides.

Theorem

This theorem is only visible on slide number 2.

Use textblock for arbitrary placement of objects.

It creates a box with the specified width (here in a percentage of the slide's width) and upper left corner at the specified coordinate (x, y) (here x is a percentage of width and y a percentage of height).

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